

# USCMS Engineer Status Report for May 2004

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## 1 Work Performed This Month

- Prepared following CMS Projects releases: - IGNOMINY: IGNOMINY\_1\_9\_0
  - IGUANA: IGUANA\_5\_0\_0
  - OSCAR: OSCAR\_3\_2\_3, OSCAR\_3\_2\_4, OSCAR\_3\_2\_5\_pre1, OSCAR\_3\_2\_5\_pre2
  - Geometry: Geometry\_1\_8\_1
  - IGUANA\_5\_0\_0 has been released with multiple document interface (MDI). With help of IGNOMINY, I found a lot of wrong dependencies and cleaned up the IGUANA code. The NCCD (Normalized Cumulative component dependency (Measure of sum of the Component Dependency compared to a balanced binary tree)) for IGUANA was very high, after cleaning up the un-wanted dependencies and re-arranging the modules now IGUANA NCCD became small but its still too high (approx. 2.18 which should be less than 1.0 for a project like IGUANA). IGUANA\_5\_0\_0 is a first release of IGUANA series with MDI and categories to control the magnetic field and SoNode manipulation support. I also fixed some bugs for this release e.g. - bug fixed for the IgSoRotSolid which was causing the application to crash when divisions are -ve - bug fixed for IgSoClipPlane due to which clip planes were not behaving properly - bug fixed which appeared when the last selected category is deleted
- IGNOMINY\_1\_9\_0 has been released, Lassi has provided IgHook, which is a new dynamic instrumentation package. I have added a new script "chk-Configuration.pl" for checking the consistency of the CMS projects configuration.
- Giulio and I have discussed a lot on the Virtual FileSystem view of CMS environment. It was proposed by us during the CPT week.

## 2 Status of Deliverables

- IGUANACMS\_1.7.0 was suppose to be out but due to new releases of COBRA/OSCAR/ORCA, we are now building IGUANACMS\_1.8.0 based on ORCA\_8.1.3, OSCAR\_3.2.4 and COBRA\_7.8.4. The first pre-release of IGUANACMS\_1.8.0\_pre1 is out. Hopefully we will have IGUANACMS\_1.8.0 released soon.

- Still working of cleaning of IGUANA code. There are some modules which need to be split in many, I am in contact with IGUANA developers and trying to clean the IGUANA as much as possible. There were some bugs about the post script print which need to be tested. A new version of GL2PS (Version 1.2.0, 13 MAY 2004) has been released and I am in process of integrating it into the IGUANA, hopefully the next release of IGUANA will have the new GL2PS.

## 3 Plans For Next Month

- Integration of GL2PS 1.2.0 into the IGUANA - IGUANA code cleanup - Fixing the bugs for the post script printing - Release IGUANACMS\_1.8.0 - Provide support to CMS projects for configuration and releases